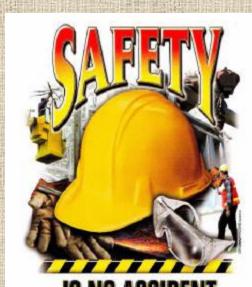
SAFETY

in the

Science Classroom



Safety and Rules of the Lab



IS NO ACCIDENT

Lab Safety Rules

- Part of this PowerPoint has been taken from the power point of...
 Tim Baker, Adam Kueltzo, and Todd Katz....former NCHS students
- And from Lyndon B.
 Johnson High School
 Science Web Site



Safety Symbols





- Know safety symbols
- They appear in your laboratory activities
- They will alert you to possible dangers
- They will remind you to work carefully

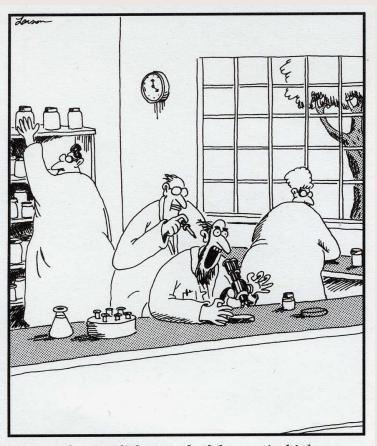


Use Your Head



Report all

incidents/injuries immediately



Professor Glickman, the lab practical joker, deftly places a single drop of hydrochloric acid on the back of Professor Bingham's neck.

- Exercise Caution and Good Judgment
- Follow all instructions given by the teacher
- Notify the teacher immediately regarding any accident or unsafe

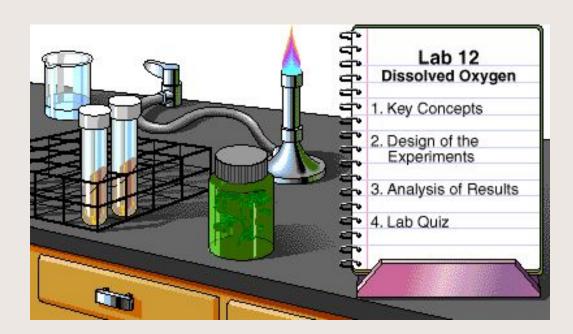
areas



Use Your Head



- Read lab instructions ahead of time
- Always follow lab procedures exactly
- Never do an unauthorized experiment

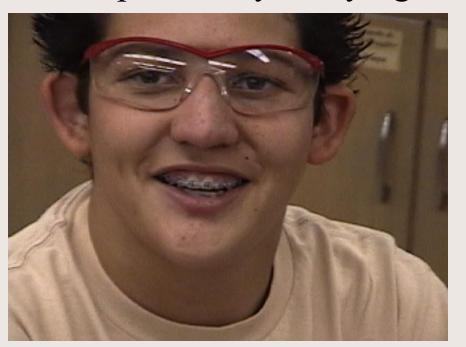




Protect Yourself Eye Safety



- Wear safety goggles when working with chemicals, flames, or heating devices
- or if possibility of flying debris





• If you wear contact lenses let your teacher know



Protect Yourself Eye Safety





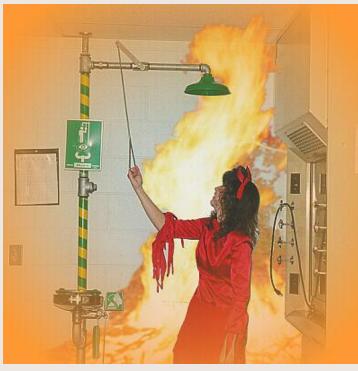
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Protect Yourself Proper Attire





 Foot wear that completely covers the foot is required

- Keep all long hair tied back
- Do not wear loose clothing that could catch on fire





Protect Yourself Hand Safety



- If a chemical spills on your skin, notify the teacher and rinse with water for 15 minutes
- Wash hands after every lab



Handle glassware, sharp tools and heated containers carefully





Protect Yourself Hand Safety







Sharp Objects



- Always cut away from fingers and body
- Always carry sharp objects with points and tips facing down and away
- Never try to catch falling sharp instruments
- Grasp sharp instruments



only by the handles







Sharp Objects



- Notify teacher if you get cut
- Broken glass and sharp objects do not go in trash cans
- Teacher will clean up broken glass



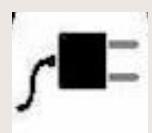








Electrical Safety



- Only electrical plugs are to be placed into an electrical outlet
- Unplug electrical equipment after use
- Keep all electrical cords, wires, and appliances away from water







Physical Safety



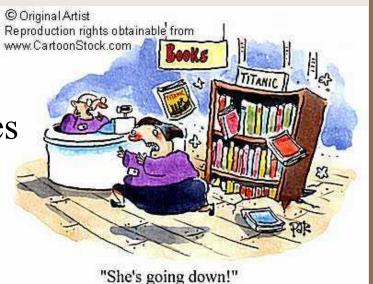


Handle all equipment carefully

- Do not place a cord where someone can trip over it
- Push all stools in out of the

way

Keep books picked up out of walking isles

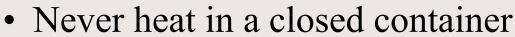


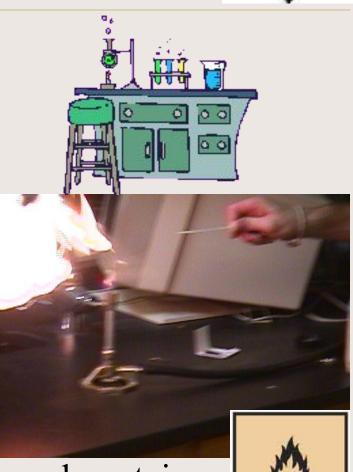


Heating Safety



- Tie back hair and loose clothes when working with open flames
- Never look into a container as you are heating it
- Never point the end of
 a test tube being heated
 at yourself or others







Heating Safety



- Never leave a heat source unattended
- Heated metal and glass looks cool, use tongs or gloves before handling
- Do not place hot glassware directly on lab desk or in cold water









Chemical Safety





 Read all labels twice before removing a chemical from the container





- Only use the type and amount of chemical instructed to use
- Never touch, taste, or smell a chemical unless instructed by the teacher
- Never mix chemicals unless instructed to do so



Chemical Safety



- Transfer chemicals carefully!
- Keep lids on chemical containers when not in use
- When diluting an acid, pour the acid into water
- Consider all chemicals dangerous



Corrosive





Radioactive



Biohazard



Poison



Oxidizing



Explosive



Flammable

Animal Safety



• Only handle living organisms with

teacher permission

 Always treat living organisms humanely

 Wash your hands after handling animals



Treatment of Specimen



 Respect the life of all laboratory specimen



They gave their life for your education





Plant Safety



- Do not eat any plants in lab
- Wash your hands after handling plants
- Tell your teacher of any plant allergies





Like any
 organism, plants
 should be
 considered
 possibly harmful



You Should Never...



- Enter store room unless given permission
- Take any chemicals from lab or store room
- Touch any equipment, chemicals, or other materials until instructed to do so





You Should Never...

• Eat or drink in the lab

 Use lab glass-ware to eat or drink out of



Food &

Beverage



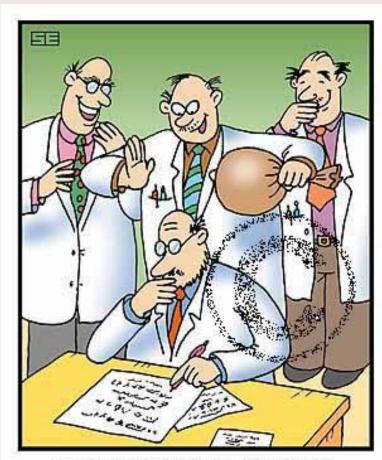
You Should Never...



• Engage in....

- practical jokes
- horse play
- rough house





The favourite practical joke amongst Big Bang theorists.



In case of an emergency..



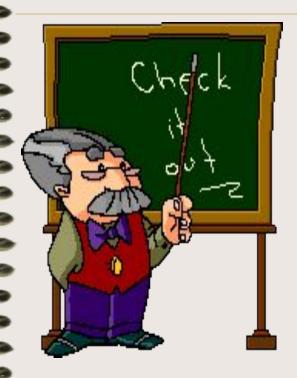


- Know the locations of:
 - fire extinguisher
 - fire blanket
 - body shower
 - eyewash station
 - first aid kit

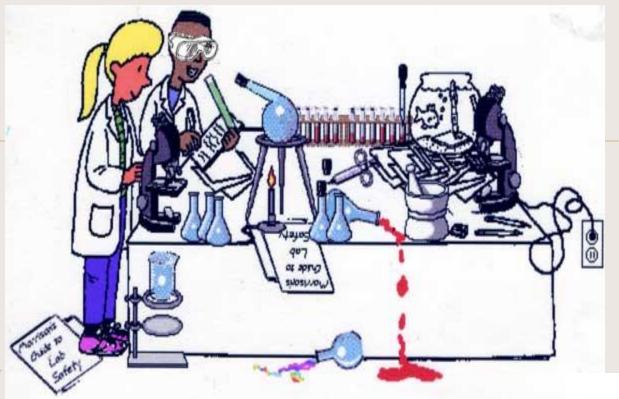


• If you spill a harmful chemical on yourself or in your eyes, start rinsing immediately and send your partner to get teacher's help

Remember to...



- Stay at your work station
- Maintain a clean work area
- Read and follow all directions
- Report any spills, accidents, or injury to the teacher immediately
- Clean and put away all equipment at the end of the lab period
- Dispose of waste products according to instruction



So Do It Right!





